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**SIGNAL-TO-NOISE OPTIMIZED FULLY MONOLITHIC
VIDEO RECEIVER IF CHANNEL**

ABSTRACT OF THE DISCLOSURE

In a video IF channel the gain of the circuit is achieved ahead of the IF filter and the output of the filter, including its noise, need only be amplified a relatively small amount, thus preserving an acceptable signal to noise ratio. In one embodiment, a variable gain amplifier is used as the first stage amplifier and a fixed gain amplifier is used for the output stage.